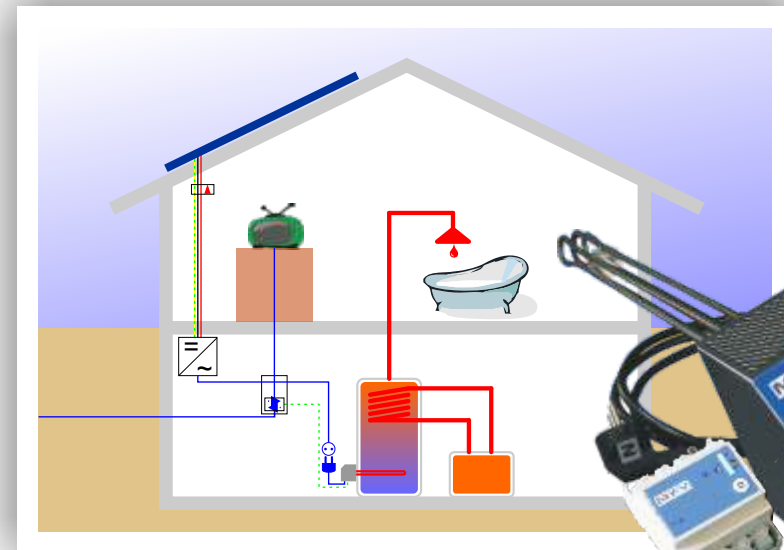
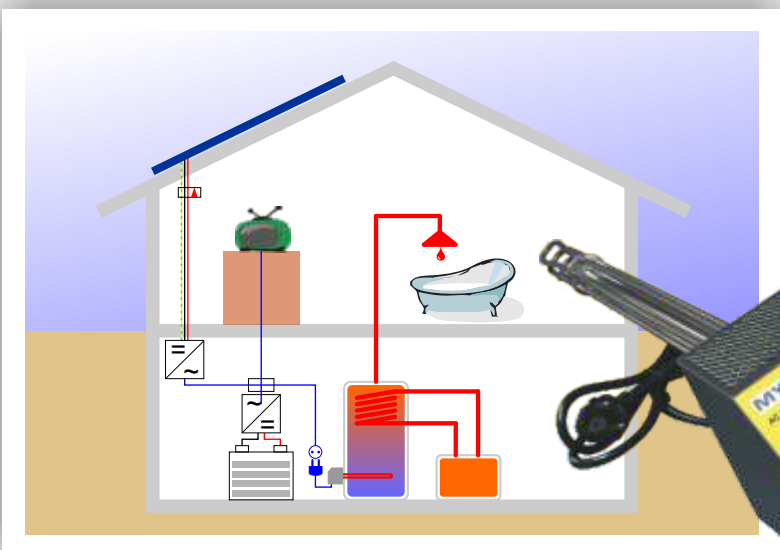


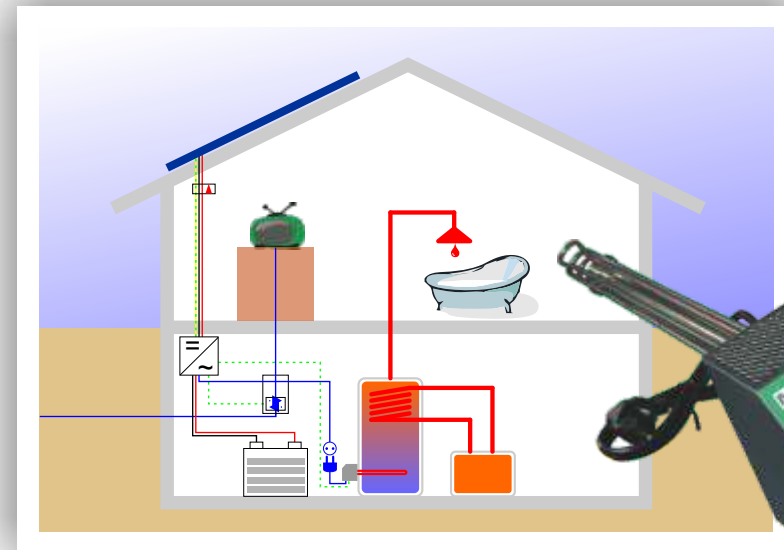
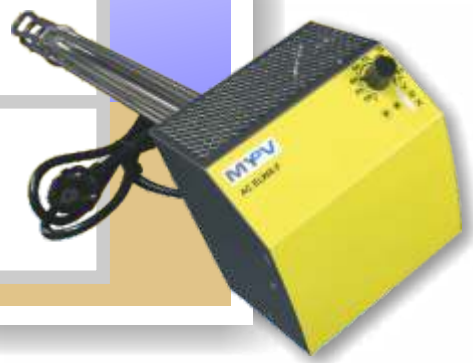
ELWA



AC ELWA



AC ELWA-F



AC ELWA-E



Application Overview





ELWA

ELWA is a photovoltaic water heater. Direct current from photovoltaic modules is transferred directly into the immersion heater and converted instantly to heat without losses. This requires no connection to the power grid (pure off-grid operation).

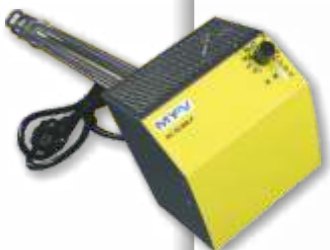
Thanks to the patented boost function, hot water supply is ensured even under bad weather conditions. In summer the conventional heating system can be switched off completely. This increases its lifespan.



AC ELWA

AC ELWA only uses excess energy from the photovoltaic system and can be installed in hot water boilers and storage tanks.

The heating power is controlled linearly, so as little energy as possible is fed into the grid and self-consumption increases significantly. Grid-connected PV systems achieve only a mean self-consumption ratio of 1/3. For an average household with a 3 kWp PV system, self-consumption can be increased up to 89%.



AC ELWA-F

Photovoltaic off-grid systems must always be designed to provide sufficient energy even under unfavorable solar conditions.

To protect the battery from overcharging, this inevitably leads to a cut-off of the solar generator at good irradiation. Energy is lost. AC ELWA-F detects the mains regulation of the inverter and uses excess energy for hot water heating. This allows expanding the overall storage capacity very simply and cost-effectively. Wasted energy can now be used.



AC ELWA-E

Smart homes and battery storage systems are the talk of the town. Hardly anyone thinks that with typical PV systems on sunny days far more energy is generated than consumed in the house. The battery is fully charged and excess power is fed into the grid. This is where AC ELWA-E with flexible control comes into the game: it communicates with the battery management system. As soon as excess is present, energy is additionally stored in hot water. This realizes 10 - 20 kWh of additional storage capacity, easily and economically.



Description

